

Claims

1. An air-stirring blade to be mounted within an internal combustion engine, characterized by
5 a cylindrical body (1) whose mid portion is provided with blade (2) constructed in such a way that the inner side of the blade (2a) takes the form of stirred grooves with dip angle (3) of about 10° to 80° or typically 30° with respect to vertical axis of the body; and
10 the outer side of the blade (2b) which is of the same shape with the inner side (2a) thereof, the existence of two or more, generally four tangent lines (4) between blade (2) and body (1) which form a channel of cap-shaped cross-section (5) which is twisted along
15 body (1).
2. Air-stirring blade in claim 1 whose shape has been modified so as to show a blade (2) only after the omission of the cylindrical parts of its body (1).
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3. Air-stirring blade in claim 1 which is modified as a body (1) equipped with additional lip (6).
4. Air-stirring blade in claim 1 which is modified in such
25 so that the blade is integrally constructed with the air channel and acts a joint for air channel.
5. Air-stirring blade in claim 1 which can be made of
30 nonmetal materials such as polymer or metal.